III. S. 91/92

Dr. Julius Hann

Meteorologie.

M. Smoluchowski

[illegible]

[illegible] = 0 [illegible] = ∞ [illegible]

[illegible]

Dr. Förster [illegible] Berlin : Himmelsluft

[illegible]

Laplace | = 5560 d. [illegible] = 6·6 [illegible]

[illegible] Diffusion [illegible]

Zöllner [illegible] :

[illegible] :

$d = \frac{\delta}{10^{346}}$ 1 cm³ [illegible] = 1·3 g

[illegible] 10^{98} [illegible]

$d' = \frac{\delta}{10^{332}}$

[illegible] 4 [illegible] ⊙ [illegible] ⊙ [illegible]

[illegible] ♀ [illegible] ♁ [illegible]

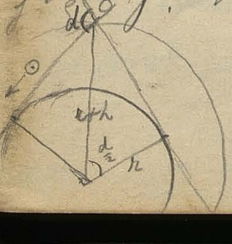
[illegible]

[illegible]

[illegible] :

[illegible] E [illegible] ;

[illegible] Arabern (Al Hazen)



$H = (r+h)\cos\frac{d}{2}$ [illegible]

$r+h = \frac{r}{\cos\frac{d}{2}}$ [illegible] $d = 18^\circ$; [illegible] $= 16^\circ$

$h =$

Bravais $d = 16°$ Bertlmann ([illegible] Alt. Oc.) $= 15.6°$

Schmidt (Athen) $d = 15.9°$ Hellmann (Spanien) $= 15.6°$

$r + h = \frac{r}{\cos 8°}$ $r = 6370$ km

$r + h = 6433$ km

$h = 63$ km $= 8\frac{1}{2}$ dM

[illegible]

[illegible]

Schmidt [illegible] = 7.8 dM [illegible] = 10 M

[illegible]

[illegible] Cap. Tordsen [schw. Polexp.]. Carl Kildenskiöld:

:420 – 430 km ([illegible]).

[illegible] [illegible]

[illegible] Weiss [illegible] August St.

110 – 180 km = [illegible] 80 km = [illegible]

[illegible] Heiss [Münster] [illegible] 300 km

[illegible] = Nordlicht [illegible] N. L. [illegible]

[illegible] [82, 83] [illegible] Paulsen [illegible] N. L. [illegible]

[illegible] : 90 – 140 km (Bravais)

370 – 450 (Neumayer) [illegible] 76 – 164 km [illegible] 113 km

[illegible]

[illegible] Krakatau 2 Aug. 89 [illegible]

[illegible] [[illegible]

[illegible]]; [illegible]: 32-35 km

Dr. Jesse in Berlin [illegible]

[illegible] photo [illegible]

[illegible] = 83 km. [illegible] Juli

[illegible]; [illegible]

[illegible]

29/10 [illegible] 88 [illegible] 5m [illegible]

[illegible] > 300 km [illegible] 5m [illegible]

[illegible]:

[illegible] $M = 5145 \cdot 10^{15}$ kg $< \frac{1}{12.10^5}$ [illegible]

1/1000000 [illegible]

[illegible]

21% O 79% N — [illegible] CO_2

O [illegible] const. Regnault: 20·96 % O

[illegible] : 20·93 % O

[illegible] 0·1% [illegible]; Regnault 20·91 – 21·0 %

Hempel [illegible] in Para (Amazonenstrom) 20·92 O

Tromsö (Norwegen) 20·95 O

203 [illegible] 21% Tromsö

[illegible] 20·86% Para

[illegible] [[illegible] 7000 m] [illegible] O; [illegible]

[illegible] 22 mm [Luftdr. 759 mm]

Volum % = $\frac{[illegible] \cdot 100}{[illegible]}$ = 2·9 % 1' = 1·8 %

v Wien : 0'9 volum % { W 0'5 % ; 68 1'4 % }

Petersburg : 0'7 v% [illegible]

[illegible] in Allahabad

max = 30'7 mm = 4 v % [Indien, Ganges].

CO_2 [illegible]

[illegible] 0'03 v% [illegible], Saussure, Schlagintweit [illegible] CO_2 [illegible]

[illegible] Müntz u. Aubin [illegible] Pic du

Midi [Observ.] Pyrenäen, h = 2877 m, [illegible] 0'028 v% ; [illegible]

h = 600 m [illegible] ; — v Paris [illegible] = 0'0284, v Paris [illegible] 0'031;

v London [illegible] : 0'140! Reisel

N-Hemisphäre 0'0282 }
S- " 0'0266 [illegible] temp. } v = 0'027

[illegible] Ocean [illegible]

N	78'24 %	Wien	
O	20'80		
H_2O	0'93		
CO_2	0'003		

14 [illegible]

kg O [illegible] 1m Wien Jänner 91 kg

Juli 82 kg

Baraul Jan. 99 kg 10/2

? Juni 79 kg

Ammoniak 2,2 mg v 100 m³

Ozon [illegible] oxyd[illegible], [illegible] 3 [illegible] O; sp. 1 : 1'6; [illegible] (?)

Mont Souri (?) Observ. 100 m³ — 1'2 mg

Schönbein [illegible Ozon] [illegible] 2–3 mg pro 100 m³

[illegible] Papier mit JK [illegible]

Ozon [illegible]

[illegible] $H = 18400 \log \frac{B}{b}$ $t = 0^0$

[illegible] $H' = H(1+\alpha t)$ | $\alpha = 0.00367$

$\frac{\delta \; p - dp}{p} \; dh$

$-dp = \delta . dh$ | $h = 0$ | $\log p = \log p_0$

$-dp = D \frac{p}{P} dh$ | $lp = -\frac{D}{P} h + lp_0$

$-\frac{dp}{p} = \frac{D}{P} dh$ | $lp = lp_0 - \frac{h}{\frac{P}{D}}$

$\log p = -\frac{D}{P} h + C$ | $P = 0.760 . 13596 = 10333$ kg pro $1 m^2$

$1 m^3$ [illegible] --- 1.293 kg

$\frac{D}{P} = \frac{10333}{1.293} = 7991$ = [illegible] homog. Atm. ([illegible])

[illegible] --- $lp = lp_0 - \frac{h}{7991}$; $p = p_0 e^{-\frac{h}{P:D}}$; $\log p = \log p_0 - \frac{h}{7991 : \log e}$

$7991 : 0.434 = 18400$ = const. [illegible]

[illegible]

$\frac{P}{D}$ [illegible]	7991 [illegible]	18400 [illegible] log 10
$1.429 = 1 m^3 O$	7227 "	16645 "
$1.246 = 1 m^3 N$	8226 "	18946 "
$0.0895 = 1 m^3 H$	115372 "	265700 "
CO_2	5227 "	12036 "

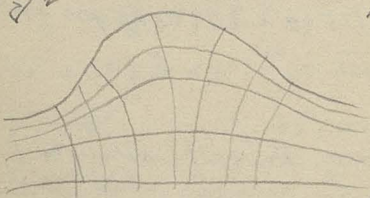
5/11 [illegible]

I [illegible] [illegible] 1°, 30-40 m

Gotthard Tunnel / 1700 m 1° pro 46 m [illegible]

[illegible] [Stapff] 30.4°

[illegible] Isothermen [illegible] Isoth. [illegible]



Mont Cenis 1° 50 m [Stapff]

[illegible]

Sperenberg 1066 m. 7.2° / 46.5°

1° pro 32 m

Schladebach 1716 m [illegible] 56.6° — (7.5)

1° pro 37 m

Wheeling in W. Virginia [illegible] 1450 m 10°7 – 40°7

1° 40.7 m

[illegible]

Norm. [illegible] Isoth. [illegible]

[illegible] Fowler's [illegible]

Persson [illegible] 7 mm [illegible]

[illegible] $\frac{1}{28}$° [illegible]

[illegible]

[illegible] Perioden [illegible]

[[illegible]].

II Temp. [illegible]

[illegible] Pouillet – 1400° Herschel – 1150°

[Amer.] Langley [illegible]

[illegible] temp. [illegible] Aeq. [illegible]

[illegible] 1.76 Calor. pro cm [illegible] Min [illegible]

[illegible] Cal. [1 cm³ [illegible] 1°]; [illegible] temp. [illegible] Aeq. [illegible]

[illegible] 373 Calor. [illegible]; 1.37 Cal. [illegible]

[illegible] temp. [illegible]

[illegible]

[illegible]

Langley [illegible] 3 Calor. [illegible] – 273°

[illegible] – 268°

[illegible]

[illegible]

III [illegible]

[illegible] Melloni, [illegible]

[illegible] Thermosäule [illegible].

Forbes [illegible] Absorption [illegible]

[illegible]

[[illegible] 0.3 – 0.8 [illegible] – 4]

[illegible]

[illegible] Reflector [illegible]; Rosse [illegible] Temp. [illegible] 110° Cels. [illegible]

$\frac{6}{10}$ [illegible] [Langley]

[illegible] [[illegible] 80, [illegible] 4–5 [illegible]] [illegible]

[illegible]]. [illegible] Temp. [illegible] Langley

[illegible] Temp. [illegible] 0° [illegible] $\frac{1}{100000}$ [illegible]

Temp. [illegible]

IV Sonne:

[illegible] [[illegible]]

Pouillet: 1·76 per cm, Minute   Aktinometer

[illegible] Temp. [illegible].

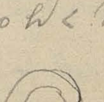
[illegible] Absorpt. [illegible]; Temp. [illegible]

Thermom. 120; [illegible] 20 [illegible] 11 [illegible]

[[illegible], [illegible] Temp. [illegible] 820, etc.].

Pouillet [illegible] Cylin. [illegible] Thermom.

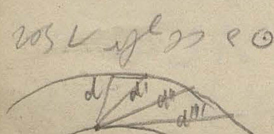
2 etc. [Pyrheliometer]. [illegible] relativ [illegible].

[illegible]  [illegible]

[illegible]

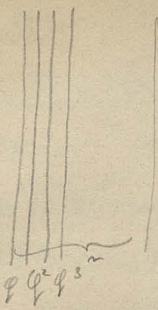
[illegible] etc. [illegible] Absorp. [illegible]

[illegible]



[illegible] $J q^n$ [illegible]

[illegible] Transmissionscoëff. , n = [illegible]

J. 

[[illegible]]

[illegible]

$J q^{d'}$ $d' \cos z = 1$

$$d' = \frac{1}{\cos z} = \sec z$$

$$\left.\begin{aligned} J' &= J q^{\sec z} \\ J'' &= J q^{\sec z'} \end{aligned}\right\}$$

Pouillet [illegible] : J = 1·76, q = 0·75 [illegible]

[illegible] 3/4 [illegible] [[illegible]]

[illegible]

z	d	J'' : J
90°	1	75 %
70°	1·1	74
50°	1·5	69
30°	2	56
20°	3	33
10°	6	20
5°	10	5
0°	36	0

Röntgen [illegible] : 0·21 [illegible]

Violle [illegible]

[illegible]

Montblanc Aug. 75

4810 m 430 mm 1°

[illegible] = 1 mm [[illegible]] : 2·39 Cal.

Glacier des Bossons 1200 m : 2·02

[illegible] : 2·54

[illegible] Algerien [illegible] : 2·4

[illegible] Langley [illegible]

[illegible] [selective Absorpt.]

[illegible]

12/11

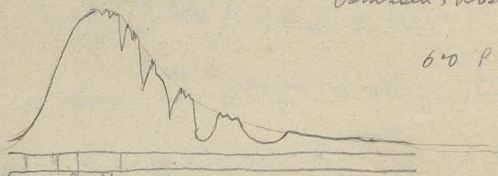
Langley [illegible] sel. Abs. [illegible]

[illegible] [Diathermansie].

[illegible] abs.

Bunsen & Roscoe [illegible]

[illegible] Hs [illegible]



$$J' = J q^d$$

q = 0·4 [illegible]

q = 0·75 [illegible]

q = 0·85 [illegible]

Langley: Bolometer

[illegible] Pt [illegible]

[illegible]

[illegible] Signal Service

[illegible] Californien, [illegible]

Mount Wheatney

q = Transmissionscöff.

Violett	H	q = 0·35	λ = 0·37 μ
Gelb	D	= 0·88	= 0·60 μ
Roth		= 0·95	= 1·00 μ

[illegible] λ = 0·7 μ B

[illegible] 0·6 μ D

[illegible] blau 0·5 μ F

[illegible] Curve [illegible] Ord. [illegible]

[illegible]

[illegible] 3 Cal. pro 1 cm² [illegible] sec. [illegible]

Angström [illegible] 4 [illegible] 3.

[shorthand]:

$3 \times 60 \cdot 24 \cdot 365{,}2 \cdot r^2\pi = 2010 \cdot 10^{21}$ Calor.

[shorthand] 1 gr. [shorthand] 80 Cal. [shorthand]

54 m [shorthand] (... Aeq. [shorthand]) [shorthand]

Aeq. 66 m. [shorthand] Poisson [shorthand] 7 mm

[shorthand]

[shorthand] [...sp.] [shorthand] Abs. [shorthand] Abs. [shorthand]

[shorthand] Veg. [shorthand]

[shorthand] diff. [shorthand] 1906

[shorthand]

[shorthand] Abs. [shorthand] [Pr. Brücke] [shorthand]

[shorthand] snap. [shorthand] Leonardo da Vinci

[shorthand] Lord Raleigh [shorthand]

[shorthand] 4 Pol. [shorthand]

			Intens. [shorthand]					$1/\lambda^4 \cdot 10^{?}$
			90°	30°	10°	2°	0°	
Roth	A	0.76	0.95	0.91	0.74	0.66	0.11	30
Gelb	D	0.59	.87	.75	43	32	0.0	83
Indigo	G	0.43	61	37	0.5	0.2	–	291

Aitken in Edinburgh [shorthand] Atm. [shorthand]

[shorthand] Atm. [shorthand]

Tyndall [shorthand]

[shorthand]

In Montpellier [shorthand] ~~[illegible]~~ Crova [shorthand] Intens. [shorthand] 120:

[shorthand] Dec. 0.90 [shorthand] 2.8 [shorthand] 1.6 Cal.

April 1.15

Dec. q = 0·71 } Transmissionscoeff. [illegible] Secchi [illegible]
Sommer = 0·48 }

[illegible] stratus [illegible]

[illegible] 102 [illegible] registrierende Aktinometer.



[illegible]

[illegible] Sonnenschein App. [illegible]
[illegible] Crova
[illegible] Dec. 53 Cal. } [illegible] Montpellier
[illegible] Juli 357 " }

73.200 Cal. = [illegible]

9·15 m. [illegible]

362.800 Cal. = therm. [illegible] Atm.

[illegible] 20% [illegible] Atm. [illegible]

[illegible] diffuse [illegible] 45% [illegible]

Wärmeausstrahlung. [illegible]

[illegible] Claysure [illegible] Therm[illegible]

[illegible]

[illegible]	0	1	2	3	4 ([illegible])
	4·6	3·9	3·1	2·3	1·5

[illegible]

1000–2000'	0·9°
3 –4000'	3·2°

[illegible]	4·1°	1 [illegible] Therm. [illegible] 2–3° [illegible] 15°
[illegible]	4·7°	[illegible H. Waite]. [illegible] 4° [illegible]
[illegible]	1·3°	[illegible] Indien [illegible]
[illegible]	2·2°	1 Zoll [illegible] temp. [illegible] 5–8° [illegible]

[illegible] [illegible] Williams [illegible] Transactions ....]. [illegible] Glaser [illegible] in Jemen [illegible] temp. [illegible] 8° [illegible] [illegible] temp. [illegible] 30° [illegible]

General Strachey (?) [illegible] Madras [illegible] temp. [illegible] 7 Ab. – ½ 6 M.

[illegible]	22·4	18	15·4	11 mm
[illegible]	3·7	5·7	6·7	9·2

[illegible]

26/11 [illegible]

[illegible] temp. [illegible]

[illegible]	0	1	2	3	4	[illegible]
[illegible]	−10·5	−6·8	−3·1	+0·5	+4·4	[illegible]
[illegible]	+1·6	+0·8	−0·3	−1·2	−2·7	

[illegible] temp. [illegible] −3·7 [illegible] 1·3

[illegible] August: [illegible]

Januar	−8·5	−1·1	[illegible] temp.
Juli	22·0	16·5	
Jahr	8·1	8·0	

[illegible] temp. [illegible] 6 = 0

Angot, Paris:	[illegible]	[illegible]	tägl. [illegible]	[illegible]
Dec. Januar	−0·9	2·6	7°	1·9°
Juni Juli	19·8	15·1	15·2°	4·5°
Jahr	9·5	9·3	12·5°	3·7°

[illegible] temp.

Angot Paris:

	[illegible]	[illegible]	[illegible]	
Dec.	1·8	6·5	10·3	= tägl. [illegible]

[illegible]

[illegible]

[illegible]

[illegible] temp. [illegible] ca 13–1400 m.

[illegible]

[illegible]

[illegible] [zB. in Württemb.] [illegible] hor. [illegible]

[illegible] Humboldt [illegible] Hochpl. [illegible]

[illegible]

[illegible] NW Indien [illegible] 7–8 [illegible] Veg.

[illegible]

Dr. Maurer in Zürich (ca 480 m); [illegible]

[illegible] 0·13 Cal. pro cm², Min. [illegible] Juni [illegible] 15°.

= 1/10 [illegible] Dr. Pernter & Dr. Trabert [illegible] Sonnblick

Rauris 950 m 0·15 Cal, [illegible] Sonnblick S. [3100 m] 0·20 Cal.

[Febr. −6°] [−12°]

[illegible] Stefan's [illegible] [[illegible] 4ten Oct. [illegible] temp. [illegible]] [illegible] 9

[illegible] Renner [illegible] [[illegible]] [illegible]

0·50 , [illegible] 0·37 Cal. [illegible]

[illegible] Dr. Trabert 0·21 Rauris } [illegible]

— Dr. Pernter 0·12 Sonnblick }

[illegible] temp. [illegible]

[illegible] empi. [illegible]

[illegible] temp. [illegible] t.A. [illegible]

[illegible]

[illegible] th. [illegible] eth. [illegible]

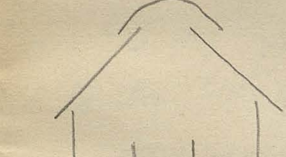
[illegible] Drathermann.

[illegible] th. [illegible]

[illegible] t.A. [illegible]

[illegible] t.A. [illegible] eth. [illegible]

[illegible]



[illegible]

[illegible]

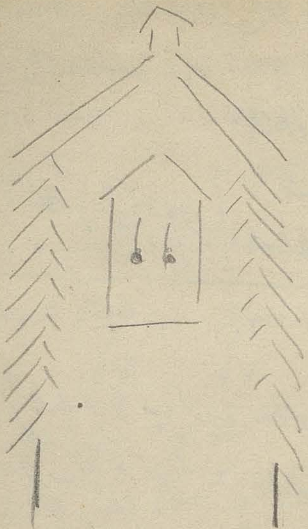
temp. [illegible]

[illegible] t.A. [illegible]

[illegible] t.A. [illegible] t.A. [illegible]

[illegible]

[illegible] Engl. [illegible] Th. [illegible] Salomonsen [illegible]



[illegible]



[illegible] Assmann [illegible]

3/12 [illegible]

Th.-Scalen [illegible] Celsius [illegible] Fahrenheit [illegible]

212 100 } F. [illegible] Boerhave

32 = −18° 0 [illegible] 1709 [illegible]

[illegible] 240° = 38° [illegible] 24 [illegible] 4 [illegible]

960 = [illegible]

0° = [illegible]

[illegible] = 32° [illegible]

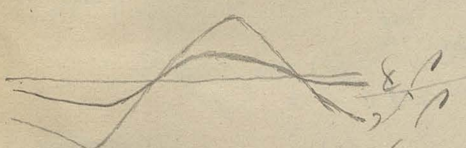
212°

[illegible]

Juli 9h : Kasan −0°5
Nukuss −2·8
Tiflis +2·2
Turin +0·2 } [illegible]

[illegible]

[illegible] [illegible 9h] [illegible] 3h [illegible]



[illegible] Thermographen [illegible]

[illegible] = 24 [illegible]

[illegible]

[illegible] Combin. [illegible]: 6h 2h 10h [illegible] 70 [illegible]

8 8

aequidistant

Jänner Juli

[illegible]: −0·11 +0·31 } Correction [illegible]

[illegible]

[illegible]: 7h, 2h, 9h Russl. Deutschl. Öst. Schw.

Jan. Juli

[illegible] $\frac{1}{3}$ [illegible] Corr. [illegible] −0·16 −0·37

[illegible]: $\frac{1}{4}(7, 2, 9, 9)$

[illegible]: Jan. −0·10 Juli −0·15 ; [illegible] Corr. [illegible]

$\frac{1}{3}(7, 2, 10)$ −0·1 0·0

[illegible] [[illegible] 8.59h] [illegible] 0°

[illegible]

	Oct.	Juni	
$\frac{1}{2}(8, 8)$	+0·9	+0·2	26 [illegible]
$\frac{1}{2}(9, 9)$	+0·7	+0·2	
		Mai	
$\frac{1}{2}(10, 10)$	+0·3	+0·1	

[illegible] 2h [illegible] [Norwegen, deutsche Seewarte, Baiern, [illegible] N Am.]

[illegible] Indien: 4h, 10h, 4h, 10h.

[illegible] Max. [illegible] Min. Th.

Min.: Alkohol [illegible] (Rutherf.)

Max.: Quecks. [illegible]

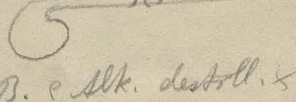
[illegible] engl. [illegible]:



[illegible] Th.

(Walferdin)

[illegible] Th. [illegible]:



[illegible] Alk. destill. [illegible]; [illegible] Fr. Th, [illegible] [illegible]

$\frac{1}{2}$(Max Min) [illegible]; ca 0·2, 0·3 [illegible]

Jan. −0·1 Aug. [illegible] −0·3 [illegible] −0·25

[illegible]: $\frac{1}{4}(9^h, 9^h$ Max Min) [illegible] Engl. [illegible]

[illegible] [[illegible]

[illegible]] [illegible] [[illegible] Lamb. [illegible]

$t = t_0 + A \cdot b^x$ $x =$ [illegible]

$x = 0$

$t = t_0 + A$ } [illegible]

$b =$ [illegible] $= 0.87$

Angot, Paris:

Jänner

$-5.9 + 7.5 \cdot 0.87^x$

$0.6 + 2.2 \cdot 0.87^x$

Juli $9.1 + 10.9 \cdot 0.87^x$

$12.9 + 3.9 \cdot 0.87^x$

A = [illegible]

[illegible]

[illegible]:	0	4	8	10	} Dec.
[illegible]:	6.5	4.4	2.6	1.8	
:	15.5	10.7	6.3	4.4	} April

[illegible] T. [illegible]

Rykatscheff [illegible] T. [illegible] Petersb. [illegible]

[illegible]

[illegible] 10 [illegible] 1 T. [illegible]

[illegible] 84 [illegible] [[illegible]]

10/12 Jährlicher Temperaturgang.

[illegible]

T.-[illegible] Wien [s. 100 [illegible]] [illegible]

Dec.	-0'3	Juni	18'8
Jan.	-1'7	Juli	20'5
Feb.	0'1	Aug.	19'7
März	4'3	Sept.	15'9
April	9'9	Oct.	10'0
Mai	15'1	Nov.	3'9

[9'70 = 50 [illegible]]

[illegible]

[illegible — $\frac{1}{12}$]

[illegible]

Apr. [illegible] Oct. [illegible] Temp.

[illegible] : -0'6; [illegible] : 9'8; [illegible] : 19'7; [illegible] : 9'9

[illegible]

[illegible] = 22'2 = [illegible]

[illegible] 12 [illegible] [illegible]

[illegible] $\frac{1}{100}°$, [illegible] $\frac{1}{10}°$ [illegible].

[illegible] 30'44 [illegible] 2B. [illegible]

Fort Kennedy {Apr. [illegible] 0'5 [illegible]; Oct. [illegible] 0'1 [illegible]} [illegible]

Temp. [illegible] Batavia - 6°11'

[illegible] : Jan, Feb, 25'3, [illegible] Mai 26'4, [illegible] Juli 25'7

[illegible] Oct. 26'4; [illegible] = 25'9. [illegible] = 1'1

[illegible]

[illegible] Juli [illegible] Jan. [illegible] Juli [illegible]

[illegible]

[illegible] [[illegible]].

10. [illegible] Ind. [illegible]

108 [illegible]

[illegible] 72°: [illegible] Febr. – März; [illegible] Juli.

[illegible]

Lady Franklin Bay 81°44' [Grinnell-Land [illegible]
(…) [illegible]]

[illegible] 3 [illegible] : 2 [illegible].

Febr. – 40'1 } [illegible] – 20'0 = [illegible]
Juli 2'8

78°37' Rensselaer Hafen [[illegible] Kane [illegible]].

März – 36'4 } [illegible] – 19'0
Juli 3'4

[illegible] Asien:

[illegible] Werchojansk 67°34' (cca 107 m)

Jan: – 53'1 } – 19'3 = [illegible] [illegible] = 67°!
Juli: + 13'8

abs. [illegible]: – 63° — + 21°.

[illegible] Jakutsk 62°:

Jan: – 42'8 } [illegible] – 11'2 [illegible]!
Juli: 18'8

25–20 [illegible] 203.

Spitzb. 79°53': Mosselbai Winter 72–73:

Sept. – 3'9 Oct. – 12'7 Nov. – 8'1 Dec. – 14'4 Jan. – 9'9

Febr. – 22'6 März – 17'6 Apr. – 18'1 Mai – 8'3

Jan Mayen: 82–83 Dec. – 9'6 Jan. – 7'3 Feb. – 4'4 März – 10'3
71° [illegible] = – 2'3 Juli + 3'5

Nowaja Semlja: [illegible] Jan. [illegible] Dec. [illegible]

[illegible]

[illegible]

[illegible]

Sonnblick 3100 m: 47°

Jan. Feb. −13·0 [illegible] −6·3

Juli Aug. 1·4 −35 [illegible]

[illegible]: 14·4.

[illegible]: Pikes Peak 4300 m 38°

14 [illegible]: Jan. −13·1, Juli +4·5 [illegible] −7·1 | −37 [illegible]

[illegible]

Thorshaven 62° März +3·0 Juli 10·9 [illegible] 5·7 [illegible]!

S. Francisco: Juni 14·4 Aug. 14·6 Oct. 14·9

38° Juli 14·5 Sept. 15·4 Jahr 12·9.

[illegible]

Japan: Nemuro 43°20′: Juli 15·6 Sep. 14·5

Juni 10·7 Aug. 17·9 Oct. 10·2.

[illegible] Wien [illegible]

[illegible]

Stern. ([illegible]) } 9·7 [illegible]

[illegible] Met. Anst. [Fav. [illegible]] [illegible]

Hochschule f. Bod. Kult.

Hohe Warte:

Hohe Warte (30 [illegible]) [illegible] [illegible] {Kremsmünster [illegible] Hohe Warte

reduc. [illegible] 690 m	Jan.	−1·2	−1·3	Juli	20·4	20·0
1851–90	Apr.	10·0	9·6	Oct.	10·5	10·2

Jahr: 9·7 9·4

Wiener Wald	Jan.	−1·5	Juli	19·2	Jahr 8·8
	Apr.	9·0	Oct.	9·6	

[illegible]

Hadersdorf red.	7h	2h	9h	
Winter:	−0·8	0·0	−0·8	[illegible] H.W.
Sommer:	−1·1	−0·2	−2·3	

[illegible] Veg. [illegible]

[illegible] [[illegible]]

[illegible]: Budapest [illegible] 0·7° [illegible]

Cilli 0·9 München 0·8 S. Louis 1·1 Calcutta {0·8 / −0·4}

[illegible]

17/12 [illegible] met. [illegible]

[illegible]:

Wien Dec. 1840 −9·5 [illegible] Jan. [illegible] Potsdam

1824 }
1833 } + ~~5·4~~ [illegible] Febr. [illegible] Triest

14·9

[illegible]:

1837 Juli 17·4 [illegible] N. England

1794 24·6 [illegible] Triest

7·2

n ϑ: 1829 : 7·4
1822 : 11·8

Krakau: Dec: 1829 −13·9 Jan. d Kasan
1825 3·9 Jan. d Riva

ce° ϑ 1826 − 1877 ↗

Dec: 1879 Klagenfurt −14·1 Dec. d Ilatusk u Leb.
1852 —— +0·9
1879 Larbach −11·7
1868 —— +6·0

Jan.: 1841−50 [illegible] −2·4 } [illegible] 10 [illegible]
1851−60 −4·7
1847−51 −4·1 } 5 [illegible]
1852−56 −0·5

Febr.: 1838−42 −2·5
1866−69 4·6

Dec. ϑ d Krems:

~~[illegible]~~1875: −1·9	78: −2·5	81: 0·1	84: 1·4
76: +1·4	79: −8·0	82: 1·2	ϑ −0·4
77: −0·2	80: +3·9	83: 0·7	

[illegible]: −2·2 ; +1·5

Dove [illegible]:

−1·5	−2·1	+0·5	+1·8
+1·8	−7·6	+1·6	
+0·2	+4·3	+1·1	

} ϑ [illegible]: 2·25

[illegible]:	N. Russl.	W. Sib.	Mittel Russl.	N. Deutschl.	Alp. Schwz.
Winter:	3·4	3·0	3·1	2·0	2·3
Sommer:	1·6	1·3	1·4	0·9	1·1

14

	S. Alpen	Dalm. Insel	Italien	England
Winter:	1·6	1·3	1·3	1·4
Sommer:	1·0	0·8	1·0	0·9

[illegible]

[illegible];

Dove [illegible]

Fechner [illegible]:

$$w = \frac{1.1955}{\sqrt{2n-1}} \cdot d$$ [illegible]

n = [illegible]

Krems: [illegible] $w = \frac{1.1955}{\sqrt{19}} \cdot d = 0.274$

$$d = \frac{2.25}{\pm 0.6} \; 0.274$$ [illegible] 10 [illegible] 0·65 [illegible].

Wien 1831–80 [illegible] Dec. 2·38

[illegible] 50 [illegible]: 0·29

$$w : w' = \sqrt{2n'-1} : \sqrt{2n-1}$$

$$n = n' \frac{w'^2}{w^2}$$ = [illegible]

[illegible] = 0·1 [illegible]:

Batavia $n' = 10$ [0·265 = [illegible] 10 [illegible]] n = 5·3 [illegible]

[0·15 —] n = 1·7 [illegible]

Wien: Winter: 396 [illegible] Jahresm. 40 [illegible] | [illegible] 2·33, [illegible] 1·25, [illegible] 0·47 } [illegible] n = 90

Sommer: 102 [illegible]

West Sibirien: Winter: 79.3 [illegible]

Sommer [Juli Aug.] 96 [illegible]

Tages [illegible] Jan (Wien): ±0.5

[illegible] 0.1 [illegible] 2000 [illegible]

[illegible]

[illegible]

Lamont [illegible]

Diff.: Krems – Wien:

0.0	−0.5	−0.5	−0.4	} −0.27
−0.5	−0.5	−0.3		
0.0	+0.2	−0.2		

[illegible] 11 [illegible]

[illegible] 2.0.7

[illegible] Dec. [illegible] Krems [illegible] 0.3 [illegible]

[illegible] = 0.3 [illegible] 0.08

[illegible] 10 [illegible]

[illegible] 16 ≤ [illegible]

[illegible]

7/1 Temp. [illegible] horiz. [illegible] = 0 [illegible]

vert. [illegible]

[illegible] Saussure Juli 1788 [illegible] Col du Géant 3400 m

Chamonix u. Courmayeur: 2.5° [illegible] Col du G.

17.9 Chamonix 1780

21.6 Genf 400 m

[illegible] ?

} 157 m   160 m pro 1°   pro 100 m: 0·63

} 169 m

[illegible]

[illegible]   Jahres[illegible]:

Ceylon	0·58 pro 100 m	Erzgebirge	0·59
Nil Sherry	0·59	Harz	0·58
Bengalen	0·52	Alpen	0·58
NW Himal.	0·54	Siebengebirge	0·56
Anden	0·55	Mount Wash.	0·55
Mittel	0·55	Mittel	0·57

Norwegen Küste 0·55

Dagegen [illegible] Plateau [illegible]

Rauhe Alb 0·44

Dekhan, Tibet 0·47

Mitteleurop. Geb.

	Winter	Frühling	Sommer	Herbst	Mittel
	0·45	0·67	0·70	0·53	0·59
Höhen [illegible] 1°:	222	149	143	188	170

[illegible] 28/December 0·33   [illegible] 0·52 Ostalpen

[illegible] — 14/Mai 0·66

[illegible]

[illegible]

18 Isotherm. [illegible] 0°:

Süd. Seite d. Alp. [illegible] 6° [illegible] Jan 8 550 m

Max. d. Juli 3590 m

Nord. Seite d. Alp. — Jan 7 80 m

Aug. 5 3520 m

[illegible] (1) Mai : 22·4 m pro 1

[illegible] 10m (5) Nov. : 37·6 m

[illegible] 38° Pikes Peak 4300 m   0·64 { Dec. 0·53 / 0·74 Mai

22km | Colorado springs 1840 m

6·4°   2460 m

Sonnblock 3100m   0·65   Jan 0·53 / Juni 0·76

2·5km | Kolm Saigurn 1600 m

30·5°   1500 m

Ben Nevis [Schottl.] 1343 m   0·67   Jan. 0·59 / April 0·76

Ft. William 12 m

8km 9·5°   1330 m

[illegible] 0·55 / 0·75 } 0·65 } [illegible]

{ Lienz / Sonnbl. } Jan. 0·34 / Juni 0·75 } 0·56   [illegible] /10.

[illegible shorthand]

[illegible shorthand]

Zell am See 750 m — 5·9 / 16·1 — 22·1 — (5·6 Jahr)

Schmittenhöhe 1950 m — −7·1 / 9·0 — 16·1 — (0·7)

Sonnblick 3100 m — −13·5 / 0·7 — 14·2

Altstätten [Boden See] 560 m — 19·4 = [illegible]

Trogen 780 — 17·1

Gäbris 1250 — 15·5

Rigi 1790 — 14·5

Säntis 2465 — 14·1

[illegible shorthand] = 0 [illegible] ?

21·45 − 0·220 h — h = Höhe in 100 m [illegible] — [illegible] West Schweiz

22·08 − 0·252 h — Tauern

9200 m [illegible shorthand] = 0° [illegible]

Glockner 3800 [illegible] — −17° } −11°

[illegible] Sonnbl.] [illegible] — −5°

Kolm Saigurn 1600 m [illegible] — −5° . .

[illegible shorthand] 10 [illegible shorthand]

Sonnblick −35°

[illegible] Senf. 400 −19·2

S. Bernhard −20·4

absol. [illegible] { −23·3
−27·2

Zerbach [?] −22·7 Obir −27·5 Klagenf. −30·6

[illegible]

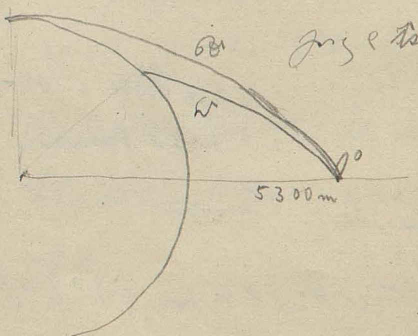
Tägl. Per. [illegible] :

[illegible] Sommer 5h Mo 0·54 [illegible]

5h Ab. 0·82

St. Bernhard − Genf Dec. 8h Mo 0·36

Aug. 4h Ab. 0·68



[illegible]

Normal. W 3960

Gr 6700

Alpen W 300

Gr 3400

[illegible] Atm. [illegible]

[illegible] Atm. [illegible] Hochthales [illegible]

[illegible]

z. B. Bevers (Engadin)	Jan.	−9·6	1720 m	11·9	[illegible] 1·4
Rigi		−4·8	1740 m	9·7	[illegible] 1·7

17

[illegible] Ballon [illegible]

[illegible] Ballon [illegible]

[illegible] 1860 [illegible] London [illegible] Glaisher [illegible]

[illegible] British Association

[illegible] Gay Lussac 16/9 1804 [illegible] Paris [illegible] 7017 m

−9·5 30·6 [illegible] N.

T. pro 100 m = 0·54 [illegible] Barom. [illegible]

27/7 1850 7100 m Barral & Bixio [illegible]

[illegible] −39° C.

[illegible] Welsh; [illegible] James Glaisher [illegible]:

		[illegible]		[illegible] (100 m)	[illegible]
18/8 62	7000 m	20·6	−4·4	0·36	1·48–2·59
31/3 63	7000 m	7·8	−17·2	0·36	4·10–5·27
18/4 63	7000 m	17·2	−10·9	0·40	1·14–2·30
26/6 63	7000 m	19·4	−7·4	0·38	1·03–1·55
	[illegible] 14000–16000′ [illegible]				
17/7 62	7900 m	16·4	−8·9	0·32	9·43–11·00

[illegible] 8000–15000′ [illegible] −2·5 19500 SW + 5·6

16000 – 20000′ +1·3

5/9 62 8840 m 16'7 −20'7 0'42 1'03 − 1'53

9 3/4 [illegible] = 247'6 mm = [illegible]

[illegible] Coxwell [illegible]

1110 m −24'4° = [illegible]

[illegible]

15/4 75 Tissandier, Crocé-Spinelli, Sivel

−11° 8600 m [illegible]

[illegible], [illegible] Tissandier [illegible]

[illegible]

[illegible] Glaisher [268]:

Höhe	0 − 3000	3 − 6000	6 − 9000	9 − 12000	12 − 15000
	500 m	1500 m	2500	3400	4400
	0'88	0'60	0'49	0'42	0'37

15 − 18000	18 − 22000	22 − 29000'
5400	6600	8400 m
0'36	0'21	0'17

[illegible] 100 [illegible]

[illegible] arithm. Progr. [illegible]

[illegible] empir. [illegible]:

$t = t_0 - 0'764\,h + 0'0043\,h^2$ h = Hektometer

[illegible]

Juli 20'6° [illegible] 3300 = 0° Isoth. [illegible]

Mendelejeff [illegible] rationelle [illegible]

Relat. [illegible]

[illegible]

[illegible]

$t_b = t_0 + a\,b$ $\qquad$ b = Barom [illegible]

$t_0 =$ [illegible] Atm.

$$\frac{t - t_0}{B} = a = \frac{[illegible]\ \text{Atm}}{[illegible]}$$

$$t_b = t_0 - \frac{t - t_0}{B}\,b$$ [illegible] const. $= t_0$

[illegible]	5/9	$t_0 = -32.5\,F$	a = 3.10 / engl. Z.
	31/3	$-29.2\,F$	2.40
	30/7	$-31.7\,F$	
	9/10	$-33.0\,F$	[illegible] const.
	29/8 [illegible]	$-37.8\,F$	

$-32.8 =$ [illegible] F

$= -36\,C.$

$$t_b = -36 + \frac{t - 36}{760}\,b$$ [illegible]

[illegible]

t = 0° 0.45° pro 1000 } [illegible] ~~[illegible]~~

t = 20° 0.65 pro 10 } [illegible] co.

[illegible] Ballon captif [illegible]:

0-200'	1.5	[illegible] pro 100m
2-400'	1.1	
4-600'	0.87	
6-800'	0.81	
8-1000'	0.75	
3-4 h	1.2	
4-5 h	1.0	
5-6 h	0.96	
6-7 h	0.83	
7-7½ h	0.68	

[illegible]

[illegible] Atm [illegible] 2 [illegible]

1). [illegible] Abs. [illegible]

[illegible]

2). [illegible]

Convections [illegible]

[illegible] Atm [illegible] abs.

[illegible] Atm [illegible] 1° pro 100m [illegible]

[illegible]

[illegible] Sonne [illegible]

[illegible] Conv. [illegible]

[illegible]

[illegible] 1° 100m [illegible]

$\frac{dt}{dh} > 1°$ [illegible] 100m [illegible]

[illegible] labiler [illegible]

$\frac{dt}{dh} < 1^\circ / 100\,m$ [illegible]

stabile [illegible]

$\frac{dt}{dh} = 1^\circ / 100\,m$ indifferentes [illegible]

[illegible] $< 1^\circ$ [illegible] stab. [illegible] 0.7°

[illegible]

[illegible] locale [illegible]

[illegible]

[illegible]

[illegible] condens. [illegible]

[illegible]

1g [illegible] 0.6 Cal. [illegible]

0.238 spez. [illegible] 3kg [illegible] 1° [illegible]

Condens.

[illegible] vert. [illegible]

[illegible]

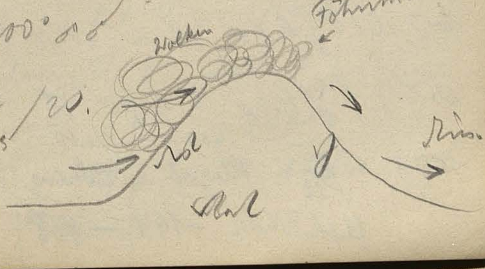
−10°	0°	10°	20°	30°	
0.76°	0.63°	0.54°	0.45°	0.38°	/ 100 m

[illegible]

2000m:	0.71	0.58	0.49	0.40	0.34

[illegible] 1° / 100 [illegible]

[illegible]



~~Windseite~~ ~~Leeseite~~

	Nord S.	Süd Seite	
15/12 1864	0·75	0·44	Süd Föhn
12/12 1863	0·48	1·00	Nord Föhn
9/11 1867	0·64	1·04	Nord Föhn

[illegible]: 0·97 Leeseite · 0·47 Windseite

[illegible] Alpen [illegible]

[illegible] = Süd Föhn.

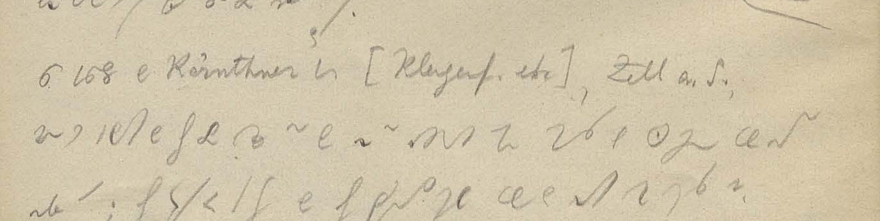
[illegible] Südseite [illegible] Alpen N.-Föhn [Aosta, Bozen, Arco etc.]

Ceylon SW Monsun:

SW 0·55 NE 0·80

[illegible] Alpen [illegible]

[illegible]



[illegible]

[illegible] Kärnthner [illegible] [Klagenf. etc.], Zell a. S.,

[illegible]

[illegible]

	400 Klagenf.	1410 Stelzing	2050 Hoch Obir
1879. 16 ~~18~~/12 M 7 h. (E Nacht)	−19·1	−~~10·8~~	−5·9

2h	−13·2	+0·8	−1·2
9h	−16·4	−2·4	−5·5

	7h	Tag. Mittel
Wien 202	−9·3	
Rax 1823	−4·3	
Ischl 470	−13·7	−11·8
Schafberg 1780	−0·1	−0·5

		9h
20–24/XII	Altstadten 480	−12·7
	Trogen 590	−3·9
	Gäbris 1250	+3·4
	Rigi 1790	+1·2

[illegible] Atm. [illegible]

[illegible] Atm. [illegible]

[illegible] Barom [illegible]

A. Red. [illegible] M. Niveau

Wien 202 m	Jan.	−1·6	Juni	19·7	Jahr	9·1
	(0·4)			(0·6)		(0·5)
		0·9		1·3		1·1
Auf M. N. red.		−0·7		21·0		10·2
Kahlenb. 450 m	Jan.	−2·9	Juni	18·6	Jahr	8·0
	(0·5)	2·2	(0·7)	3·1	(0·58)	2·6
		−0·7		21·7		10·6

Altstätten (459)	Jan	Juli
	−1·2	18·2
	1·8	2·8
	+0·6	21·0

Säntis (2465)	Jan	Juli
	−8·3	5·8
	(0·5)	(0·7)
	12·3	17·2
	+4·0	23·0

[illegible] Stat. [illegible] red. [illegible]

[illegible]

28/1 203. [illegible] Isoth. [illegible] Lehrb. [illegible]

Dove 1852: [illegible]

[illegible] Monatsisoth. [illegible]

Buchan [illegible] met. [illegible] Challenger Exped.

[illegible] 1889. [illegible] südl. Hemisph.

[illegible] W [illegible] Cont. [illegible] O [illegible]

[illegible] 0° [illegible] Isoth.:

[illegible] W [illegible] NA. [illegible] 560, [illegible] 39° [illegible] E [illegible]

[illegible] 400 E [illegible], [illegible] Isl. [illegible] 71° [illegible], [illegible] W [illegible]

[illegible] Eur. [illegible] 67°, [illegible] Bod. S. [illegible] Balk. Halbin

[illegible] 38°, [illegible] Asien [illegible] E [illegible] 36° [illegible]

[illegible] Centren [illegible] Asien [illegible] Werchojansk

[illegible] N. Amerika

Wärme-Centren [illegible] S. Afr.

[illegible] Emin Pascha (Gondokoro (30°C)

[illegible] Centren [illegible]

[illegible] S. Am. [illegible] N. Argentinien [[illegible] Bras. [illegible]]

[illegible] Austr. [illegible] 35°C [illegible]

[illegible] S. Afr. [illegible] S. Am. [illegible]

[illegible] südl. Hemisph.

[illegible] südl. Hem. [illegible] 0°.

[illegible] Isoth. [illegible] 68 [illegible]

[illegible] nö. H. [illegible] 0° Isoth.

[illegible]

Wärme-Centren: N.-Afr., Arab., Pers., N.-Ind.

Süd.-Californ. [illegible] Arizona.

[illegible] Temp. [illegible] Nowaja Semlja, Frans J. L.

[illegible] Centr. [illegible] 67° Br. −48° = Jan. t.

	10°	+26°
	57°	74°
68	80° N.	+20°
	34°	35°
	46°	33°

(Jan. t. for the first pair; Juli t. for the second pair)

[illegible]

Werchojansk [illegible] Jana 67°34′ 107 m

−53°1	14°0	−19°3	−68° +30°
Jan. t.	Juni	J. t.	Extr.

Jakutsk 62°1' 160 m

-42°8 Jan. · 18°1 Jul. · -11°2 ϑ · -62°0 38°8 extr.

Sagastir 73°34'

-38°0 Febr. · 4°9 Juli · -17°2 ϑ

Lady Franklin Bay 81°44' [Nö Grönl.]

Nares 75-76 }
— — 81-82 } 3 W Ltg
82-83 }

-57°1 7°9
-52°3 11°7
-49°2 11°3

-40°1 Febr. · 2°8 Juli · -20°0 ϑ

13/6 - 23/8 = 72 t. ü. A. > 0°

Senegambien {Medine — — } 14°

35°3 Mai · 25°2 Dec. · 29°9 Jahr

Chartum 15°36' 390

Juni 34°5 Jan. 22°7 Jahr 28°6
Juli (ϑ)

Massaua 15°36'

Aug. 34°8
Jan. 25°4

Mittel 30°2

41°5 ϑ ...
19°0 ϑ ...
43°0 abs. ...

	Valencia	Münster	Warschau	Kursk	Orenburg
		7.6	21°	38°	55°
Winter	5.7	1.3	-4.3	-9.4	-15.3
Som	15.1	17.3	18.7	19.8	21.6
	10.1 9.4	9.1	7.3	5.7	3.3

Barnaul Semipalatinsk
80.5
-18.0
21.8
1.7
39.8 = Jan

1 10° - 3.1
+ 0.7
- 1.3

57°2
(Labrad)

Nain	-19.9	10.6	-3.8
(?) Schottl.	2.9	14.3	8.2

44.7

Halifax	-5.2	18.0	6.3
Bordeau	5.8	20.6	12.8

36°7

Norfolk (Virg)	4.6	25.9	15.1
S. Fernando (Span)	11.5	24.5	17.5

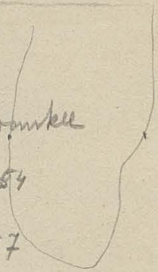
N. Pac. Ocean O W

56.8°	Ajan	-20.4	12.4	-3.9
	N. Archangel	-1.0	12.6	5.7
43.5	Wladiwostok	-15.0	20.8	4.6
	Fort Umpqua	6.8	15.5	11.4

Peking 39°5	Jan. −4'6	Shanghai 31'2	Jan. 3'2	
Marysville	7'4	San Diego 32'7	11'9	

Dove [illegible] Continent

[illegible]:
Michigan



	Milwaukee	Grandhaven
		43'5°
	87'54	86'18'
Jan.	−6'7	−3'2
[illegible]	7'3	8'6
[illegible]	−26'9	−19'6

[illegible] südl. Hem.	[illegible]	[illegible]	
Athen 38°	9'9	26'7	
Melbourne 37'8	~~19'7~~	18'9	
Martindale [N. Seeland]	5'7	14'5	
La Rochelle	4'2	19'4	
S. Georgien 54°31	−1'3	4'6	1'4 ← Sulden 1840
Cap Horn 55'5	2'6	8'0	5'4
Kerguelen Ins. 49°	2'6	5'4	4'0

64'5° Schiffs [illegible] James Ross:
−0'8 = [illegible] A.

Dove [illegible] norm. A., [illegible] Par. [illegible] 10°
10° [illegible]

0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	
25'9	26'4	25'6	20'3	14'0	5'6	-0'8	-9'9	-16'5	-20'0 ?	nörd
	25'0	22'7	18'5	11'8	5'9	0'2	-4'9 ?	-8'4 ?	-9'3 ?	süd
	-1'4	-2'9	-1'8	-2'2	0'3					

23

[illegible] Hem. [illegible] : 150

[illegible] : nö. 15'4

sü. 14'8

Jan. 8'0 — 22'5 Juli — nö } Hemisph.

„ 17'5 — 12'4 „ — sü

12'8 — 17'4 [illegible]

Sartorius v. Waltershausen [illegible]

Land-Hem.	Wasser-H.	
18'7	14'5	
44'8	22'2	Aeq.
-32'0	-10'8	Pol.

[illegible]

[illegible] 480 [illegible] 11'1

[illegible] 22'8

[illegible] — O - W Hem [illegible] [illegible]

E 80°W-100°Ö	W
nö 16'7	13'9
sü 14'3	14'9
[illegible] 15'5	14'4

[illegible] W Hem [illegible] E.

Luftdruck - Vertheilung

[illegible] 1869

11/2 Whymper — Quecksilber-Bar. [illegible] Quecks. [illegible]

am Chimborasso — 3~~5~~7°0 / 358°0 [illegible] } 357°5 = Quecks. säule

−1·97 mm Corr. [illegible] Aeq.

−0·43 " — [illegible] Seehöhe

−2·4 — Corr. [illegible] [= 53 m]

$b_{45} = b_\varphi (1 - 0·0026 \cos 2\varphi)$ = ~~Corr. [illegible]~~ ✓

Reduction [illegible] 45° ✓ [illegible]

× (1 − 1·92 . 10^{-9} h)

Red. [illegible] Corr.

Aeq.	−1·97
20°	−1·51
40°	−0·34
50°	+0·34
70°	+1·51
Pol. 90°	+1·97

[illegible] 1000 m	−0·13
2000	−0·23
3000	−0·31
4000	−0·36
5000	−0·40

[illegible] Aner. [illegible]

[[illegible]]

[illegible] Controle: Siedep.-[illegible]

[illegible] Expans. [illegible]

100°	760 mm	0·1°	= 2·7 mm
96°	657·4	0·1	= 2·4 mm
92°	566·7	0·1	= 2·1 —

1 mm ↓ 0·037

88° 486·8 0·1 = 1·9 mm 1 mm

84° 416·5 0·1 = 1·6 mm 0·063

[illegible] [0·5 – 0·60]

[illegible] 20.

[illegible]

I. [illegible] vert. [illegible]

h — b

h_0 — B

$$l\,b = l\,B - \frac{h}{18\,400\,(1+\alpha t)}$$

II. Red. [illegible]

Isobaren [illegible] Buckhann 1869 Transactions of the Royal Society of —

$$h = C \log\left(\frac{B}{b}\right)(1+\alpha t) \qquad C = [illegible] = \frac{7991}{[illegible]} = 18400$$

$$\log\frac{B}{b} = 2\left(\frac{B-b}{B+b}\right) - \frac{1}{3}\left(\frac{B-b}{B+b}\right)^3 + \ldots$$

$$h = 7991\left(\frac{B-b}{B+b}\right)$$

[illegible] B [illegible] 1 mm $= \frac{8000}{B}$

	h pro mm		
760 mm	10·5	400 mm	20·0
700	11·4	520 mm (Sonnblick)	15·4
650	12·3		
600	13·3		
500	16·0		

(1+αt) $\alpha = 0{\cdot}003\,67$

[illegible shorthand]

$\alpha = 0{\cdot}004$

$h = \frac{8{\cdot}000}{b}(1+0{\cdot}004\,t)$

---

jährl. [illegible] Var. [illegible]

[illegible]

Wien 202·5

Jan. 746·1	Barnaul redu.			Peking	
Apr. 742·2	Jan. 772·8	} 18·		771·2	} 19·1
Sept. 745·2	Juli 754·8			752·1	
Nov. 743·8	A				

Allahabad

Dec. 755·3 } 13·7
Juni 741·6

Continentale Typus:

Ocean. Typus:	Azoren	Madeira Funchal
Sitka		
Juli 761·5	Juli 766·8	Juni 765·4
Dec. 753·7	Nov. 761·7	Jan. 763·8
		Nov. 761·1
		[illegible] 761·4

Polar Polargebiet: pro Max.

N. Pol. Typus:

Jakobshaven 69·2	Hall-Bassin 81	Spitzb. 79·2
Mai 759·4	April 766·6	Mai 765·8
Jan. 751·0	Jan. 755·9	Jan. 753·3

Alpine. T.

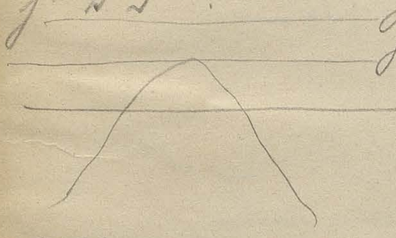
Genf 405
März 724·7 } 2·9
Juli 727·6

Sonnblick 3100.
März 514·4 } 10·6
Juli 525·0

St. Bernhard 2476
März 559·5 } 9·3.
Juli 568·8

Pikes Peak Color. 4308
Jan. 444·1 } 15·3
Juli 459·4

[shorthand]:



B'' [shorthand]
B
B' [shorthand]

$\frac{8000}{450}$ = 17·5 . 15·3
888
5
268 m = [shorthand] Pikes Peak

18/2 Januar

Continente [illegible] O Asien 778 ?
[illegible] N. Am. 768 } nö Hem.
W Island 746

Cont. [illegible] S. Afr. } [illegible] } sü Hem
Austr.
Aequat. [illegible]

[illegible] Subtropen [illegible] Ocean Maxima [30–40°]

sü [illegible] 40° [sü H.] [illegible] 746 sü [illegible] S. Am.

Sommer

[illegible] Cont. [illegible] Subtrop. Ocean

[illegible] 760 mm [illegible]

[illegible] 762 mm

[illegible]

[illegible] 200 ; [illegible]

Vorm	Nach	Vorm	Nach
9–10	9–10	3–4	
Max		Min	

[illegible]

Singapore 1°15' 3h M −0·51 mm
9h M +1·26 } 2·68
4h A −1·42
10h A +0·81

[illegible]

Novara: Pacific 6°

4h [illegible]	−0'81	
9½	+1'20	} 2'40
4	−1'20	
10	+0'87	

Wien: [illegible]

4h [illegible]	−0'10	
10	+0'47	} 0'94
5	−0'47	
10	+0'21	

[illegible]

[illegible] [[illegible]].

Dec. Jan.

6h [illegible]	−0'32	
10h	+0'43	} 0'74
2h	−0'31	
10h	+0'32	

Jun. Jul.

4h [illegible]	+0'30	
8h	+0'50	} 1'2
5h	−0'70	
12h	+0'19	

San Fernando b. Cadix:		Cordova:
4h	−0'50	+0'50
10½	+0'57	+0'83
4½	−0'31	−1'39
10	+0'35	1h Mo +0'64

[illegible] Contin.

[illegible] Cont. 6 [illegible] 10h 6.

	4h	9h	4h	9h
Madras	-0.57	1.51	-1.56	0.73
Dodabetta Pik (Nil Gherrys) 2645	-0.82	1.02	-0.62	0.54
	5h	1h	5h	9½h
Faulhorn 2673	-0.47	0.21	0.13	0.25

[illegible]

Lamont [illegible]

[illegible]

A = ampl. [illegible] 760.

$a = A \frac{b}{760}$ [illegible] geogr. [illegible]

[illegible] atmosph. Ebbe u. Fluth [illegible]

[illegible] Per.

Lamont [illegible] elektr. [illegible]

[illegible]

Thomson [illegible] Atm. [illegible]

[illegible] temp. [illegible]

[illegible]

[illegible] Atm.

[illegible]

[illegible]

[illegible]

Wien: [illegible] 28'2 mm   Krakau Dec 29'5

[illegible] 17'3   Juli 14'5

Wien: 40'7 mm = [illegible]

Krakau: 42'5

[illegible] N. atl. [illegible] N. pac. Ocean

[illegible] W [illegible] O [illegible]

Batavia 6'5 } [illegible]   8'6 = [illegible]

Trocken 5'8

Thorshaven: [illegible] Jan. [illegible] 46 mm

Juli 24'4

Jakobshaven: 54'7 [illegible]

[illegible] Ferrel

765'5 8/2 1821 } Wien } 52 mm

715'1 2/12 1806 } 195 m

746 = [illegible]

786'4 } [illegible] 10 [illegible] Jakobsh. } 71 mm

715'6

692'0 } 94 Rejkjawick 4/2 24

786'5 } / 36

6/2 1821 787·7 } Paris } 68 mm
24/12 21 719·4

26/1 1884 694·2 [illegible] Schottl.

22/9 1885 689·2. Katik [Orissa] E India
[illegible] [illegible] Cyclon

16, 17/12 1877 Tomsk (73 m) 801·4 mm

Barnaul 805 ← [illegible]

X/3

1/3 [illegible]

Wettin	1600'	3800'	7200'	12800'
	[illegible]	[illegible]		[illegible]
	1'4 m p. s.	9'3	10'7	15'8

$\frac{v}{v'} = \left(\frac{H}{h}\right)^{\frac{1}{4}}$ empirische [illegible]

[illegible]

L: 1876–90 Minim. Sept. 4'7 m

Max. März 6'2 m

[illegible] 5'1 m

[illegible] Aequin. [illegible]; Scott [illegible]

[illegible]

Lesina	Max. April	Nov.	Min. Aug.	Feb.	[illegible]
	6'5	6'1	4'2		5'5
Pola	Max. März	Oct.	Min. Juni		[illegible] 4'6
	5'4	5'1	3'8		

[illegible]: [illegible]

L Min. 4–5 h M. 4'9 m

Max. 1 h A 6'5 m

Min. 8 h A 5'17

Max 10½ h A 5'20

E[illegible]: Min. 6–7 h M. 4'7 km p. h } [illegible]

Max. 1–2 h A 10'3

22 600'	W [illegible] 5-6 [illegible] 29·4 km
[illegible] Cirrus	1-2 35·2
18·1	[illegible] Per. [illegible]

[illegible] Ocean [illegible] Per. [illegible]

[illegible] Novara [illegible]
[illegible] Challenger } [illegible] Per. [illegible]

Aspy [illegible] Per. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

	Juli Aug.	Sept. 1889	
Eiffel Thurm: 305 m	10 [illegible] 5·6 m	11 A 8·9 m	[illegible] 7·70
Paris: 20·9 m [illegible]	5 [illegible] 1·5 m	1 [illegible] A 3·2 m	[illegible] 2·01
	Min.	Max.	

[illegible] th. [illegible]

[illegible]

Sonnblick 3100 m: ~~[illegible] 8·6~~

Max. 8½ [illegible] A   Min. 10 [illegible] A

8·6   7·6

Pikes Peak 4308:

Min. 11 [illegible] M 7·8   Max 2-4 [illegible] 10·4 | [illegible] 9·3

[illegible] Aspy [illegible]

[illegible]

[illegible]: Jan 78, 14, 22 — 29·5 m

81 — 9, 10/3 — 25·5 m = [illegible] — 29·5 = [illegible]

84 — 10/12 — 6-7 [illegible] 30 m

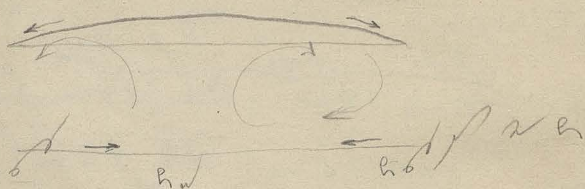
[illegible] 1/46 [illegible] 35 m

Manilla 20/10 82 — 54 m

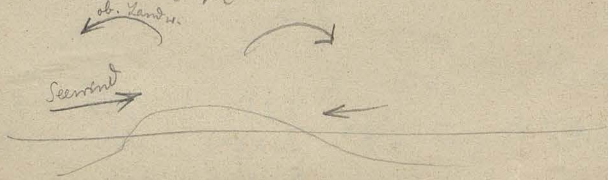
Tornado 60 m [illegible]
165 [illegible] } ? [illegible]

[illegible]

Stephenson [illegible] °/[illegible], Gradient



[illegible]



[illegible] New York [illegible] 8 [illegible]

[illegible] −125 m ± 160 m

[illegible]

[illegible] loc. [illegible]

[illegible] 4–7 m
[illegible] 1–4 m
32–40 km = [illegible]
8–9 [illegible]

} New England

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ke.

[illegible] barom. Min.

[illegible] Max. d. l.

[illegible] Monsun [illegible]

[illegible] Contin. barom. Max. [illegible],

[illegible]; [illegible] Cont. bar. Min. [illegible].



[illegible] Cont. [illegible]

[illegible] Max.

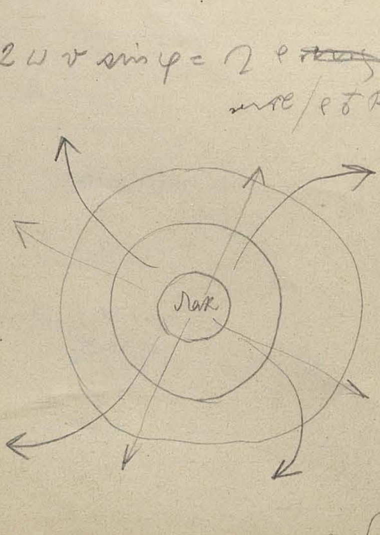
[illegible] Rot. [illegible] Storen.

$2 \omega v \sin \varphi =$ [illegible]

[illegible] Rot.

$\omega =$ [illegible] Rot.

$\varphi =$ geog. B.



[illegible] O-Asien

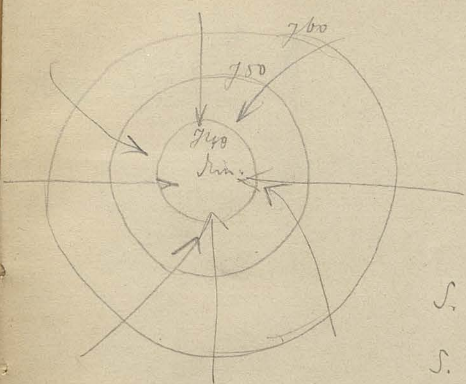
N-W [illegible]

[illegible]

O.- [illegible] Cont. [illegible] Min.

[illegible] S.-Asien N-E-Monsune

[illegible] N.-Sibirien [illegible] S-W. [illegible]

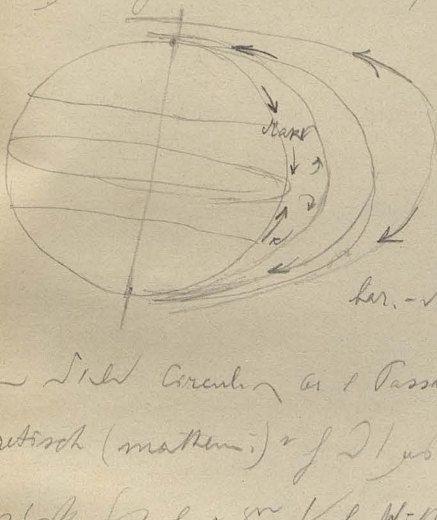




S. W.-Monsun [illegible] S-Asien

S. E — O. —

[illegible] /circ. [illegible] Aeq.



[illegible]

[illegible] compl. [illegible]

[illegible] 30-40° [illegible]

Lar.-Max. (Rossbreiten).

[illegible] Circulation [illegible] Passat. [illegible]

Theoretisch (mathem.) [illegible] Ferrel

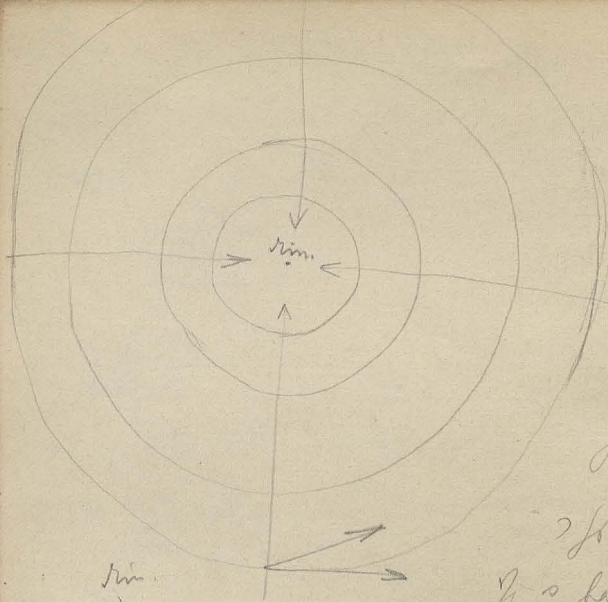
[illegible] W. [illegible]

[illegible]



[illegible] Barom. Min. [illegible]

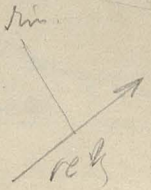
[illegible] Min. [illegible] 68 [illegible] Süd-Pol.



[illegible] Zeb.
12.

[illegible] tropischen
Cyclon [illegible]

Buys-Ballot
[illegible]
[illegible] barom. Min. [illegible]



[illegible] Zeb. [illegible]

[illegible]

[illegible]:

30°

[illegible]:

	[illegible] Hofmaier, Dänemark	[illegible] Loomis, N-Amer
N, N.E. [illegible] : 17°	14°	59
E, S.E [illegible] : 35°	26°	47
S, S.W [illegible] : 20°	27°	32
N, NW [illegible] : 9°	16°	50 47

[illegible] Engl. 20° [illegible] Clement Lee
[illegible] Zeb.

[illegible]



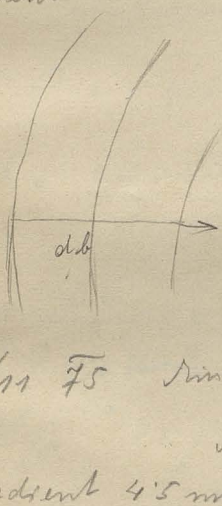
[illegible]

17/3 [illegible]

Dove [illegible]

[illegible] secundi [illegible]

Gradient



[illegible] Norm. [illegible] Isob. [illegible]

[illegible]

[illegible] 111 km

= 1° [illegible]

7–14/11 75 [illegible] London 729 – [illegible]

~~[illegible]~~ Schweiz 755

Gradient 4'5 mm pro 111'1 km

0'3 — — — g. R.

[illegible] Seine [illegible] Paris

6 10/12 84 Ischl – Wien — 12 mm

Gradient pro 1° 6'6 mm

— g. R. 0'44

[illegible] tropischen Cycl. [illegible]

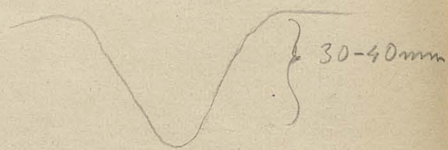
1844 Cuba-Orkan

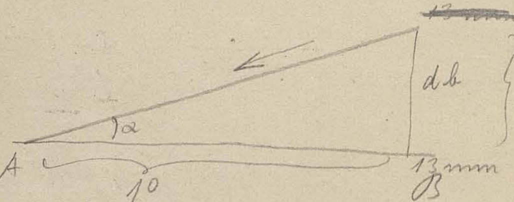
W6 9·5 mm

E6 13 mm

D. D. 0·9 mm

[illegible]:





$$10515 = \frac{sp.\ g.\ Hg.}{sp.\ \alpha}$$

$$\frac{10515 \cdot 13\ mm}{136{\cdot}7\ m}$$

$\alpha = 4{\cdot}2'$ [illegible]

[illegible]

[illegible] $v = \sqrt{2gh}$

$db \cdot 10515 = h$ $v = \sqrt{9{\cdot}806 \cdot 10515 \cdot \Delta b}$

$= 14{\cdot}36 \sqrt{\Delta b}$ } [illegible] m

[illegible]

$v = 14{\cdot}36 \sqrt{\Delta b \frac{B}{b}}$

[illegible] Rot.

[illegible] Rot. [illegible]

Ferrel

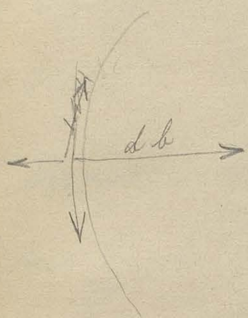
$$v = \sqrt{14.6}\,\sqrt{\Delta b}\,\sqrt{\frac{B}{b}}$$

[illegible] Rot. [illegible]:

[illegible] Isob. [illegible]

[illegible] $= t_4$.

[illegible] / = 1° Gradient



[illegible] Gradient

$$\frac{gh}{l}$$

[illegible] Rot.

$$= g\,\frac{10515.\,\Delta b}{111} = 2\omega v \sin\varphi + \frac{v^2}{\rho}$$

[illegible]

[illegible]

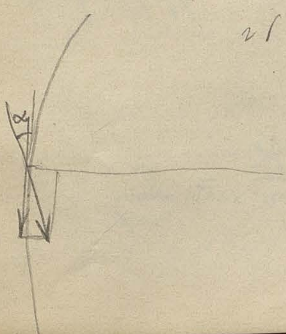
$$\Delta b = \frac{2\omega v \sin\varphi \,.\, 111}{10515 \,.\, g} = C\, v \sin\varphi \qquad C = 0.1572$$

$$v = \frac{\Delta b}{C \sin\varphi} = \frac{c\,\Delta b}{\sin\varphi} \qquad c = 6.36$$

[illegible]

[illegible]

[illegible] comp. Gradient



sin α

[illegible]

Kew-Observ.

$\alpha = 52^\circ$

$v = 6{\cdot}36 \frac{\Delta b}{\sin\varphi} \sin 52^\circ = 3{\cdot}06\,\Delta b$

Δb	v [illegible]	$v.$ [illegible]
1mm	6·4	4
	12·8	7·5
2mm	19·2	11·5
3		

[illegible] stationäre [illegible]

[illegible] $v_0 = 466$ m

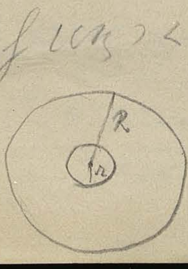
$v_\varphi = v_0 \cos\varphi$

39° 60°

$v_{39} = 361{\cdot}4$ $v_{60} = 233{\cdot}6$ [illegible]

$v_0 = 465$ } 104 m 232 m [illegible]

[illegible]



$v'_\varphi = v_z \frac{R}{r} = \frac{v}{\cos\varphi}$

39°   60°

598·5   930 m $= \frac{v_0}{\ldots}$ [illegible]
361·4   233
237   700 m

[illegible]

? Gradient

Antisana [illegible] Quito 4060 m   Sammer [illegible]

0°

Pikes Peak   4330 m

39°

456·3
443·9
} 12·4

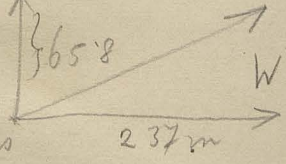
Noven [illegible] 4300 m

~~Antisana~~

$v = 14{\cdot}36 \sqrt{\Delta b \frac{B}{b}} = 14{\cdot}36 \sqrt{\frac{760}{450} \Delta b}$

$= 18{\cdot}7 \sqrt{\Delta b}$

$= 65{\cdot}8$ m



[illegible] Energie [illegible]

[illegible] Circul. [illegible] Atm. [illegible]

[illegible] Wasserdampfes [illegible]

[illegible] [[illegible]]